

U.S. Patent and Trademark Office  
2011 South Clark Place  
Customer Window, Mail Stop PATENT APPLICATION  
Crystal Plaza Two, Lobby, Room 1B03  
Arlington, VA 22202

VIA HAND DELIVERY  
**PATENT**  
Case Docket No. 50626.55  
Date: September 12, 2003

Sir:

Transmitted herewith for filing is the patent application of:

Inventor(s): Chun Ho FAN, Neil McLELLAN, and Kwok Cheung TSANG

For: **IMPROVED BALL GRID ARRAY PACKAGE AND PROCESS FOR MANUFACTURING SAME**

☐ Applicant(s) claim(s) benefit under 35 U.S.C. § 119(e) of United States provisional application No. \_\_\_\_\_ filed \_\_\_\_\_

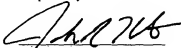
Enclosed are:

- 14 Pages of Specification  
14 Sheet(s) of drawings (☒ formal ☐ informal)  
☐ Declaration and Power of Attorney ☒ Will follow.  
☐ Form PTO-1595 and an Assignment of the invention to ASAT LTD., QPL Industrial Building, 14<sup>th</sup> Floor, 138 Texaco Road, Tsuen Wan, New Territories, Hong Kong ☒ Will follow  
☐ A certified copy of, from which priority is claimed in the subject case pursuant to Rule 55b and 35 U.S.C. 119. ☐ Will follow  
☒ Request for Non-publication of Application Under 35 USC 122(b)(2)(B)(i)  
☐ Information Disclosure Statement, Form PTO 1449, and \_ cited reference(s).  
☐ Change of Correspondence Address  
☐ Information Sheet  
☒ General authorization/request to Petition for Extensions of Time  
☒ Return Postcard

FOR:	NO. FILED	NO. EXTRA	SMALL ENTITY RATE	SMALL ENTITY FEE		OTHER THAN SMALL ENTITY RATE	OTHER THAN SMALL ENTITY FEE
BASIC FEE	25	-5-	X 9	\$375.00	OR		\$750.00
TOTAL CLAIMS	2	-0-	X 40	\$	OR	X 18	\$90.00
INDEP CLAIMS			X+ 130	\$	OR	X 84	\$0
<input type="checkbox"/> MULTIPLE DEP CLAIMS PRESENTED			TOTAL =		OR	+ 290	\$
						TOTAL:	\$840.00

- ☐ Please charge my Deposit Account No. 50-1353 the amount of \$\_\_\_\_\_. A duplicate copy of this sheet is enclosed.  
☐ Check in the amount of \$\_\_\_\_\_ to cover the filing fee is enclosed.  
☒ Please charge my Credit Card the amount of \$840.00. Please see the enclosed Credit Card Payment Form (PTO-2038)  
☐ Credit Card Payment Form for \$40.00 covering the Assignment Recordation Fee is enclosed.
- ☒ The Commissioner is hereby authorized to charge payment of the following fees associated with this communication or credit any overpayment to Deposit Account No. 50-1353. A duplicate copy of this sheet is enclosed.  
☒ Any additional filing fees required under 37 CFR 1.16.  
☒ Any patent application processing fees under 37 CFR 1.17.  
☐ The Commissioner is hereby authorized to charge payment of the following fees during the pendency of this application or credit any overpayment to Deposit Account No. 50-1353. A duplicate copy of this sheet is enclosed.  
☐ Any patent application processing fees under 37 CFR 1.17.  
☐ The issue fee set in 37 CFR 1.18 at or before mailing of the Notice of Allowance, pursuant to 37 CFR 1.311(b).  
☐ Any filing fees under CFR 1.16 for presentation or extra claims.

Respectfully submitted,

  
Joseph R. Keating  
Registration No. 37,368

KEATING & BENNETT LLP  
10400 Eaton Place, Suite 312  
Fairfax, VA 22030  
Telephone: (703) 385-5200  
Facsimile: (703) 385-5080

**PATENT**

Docket No:50626.55

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Chun Ho FAN, Neil McLELLAN, and Kwok Cheung TSANG

**For: IMPROVED BALL GRID ARRAY PACKAGE AND PROCESS FOR  
MANUFACTURING SAME**

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**CERTIFICATE OF HAND DELIVERY**

U.S. Patent and Trademark Office  
2011 South Clark Place  
Customer Window, Mail Stop PATENT APPLICATION  
Crystal Plaza Two, Lobby, Room 1B03  
Arlington, VA 22202

Sir:

Date of Deposit: September 12, 2003

I hereby certify that an application for patent, including:

One-page cover sheet; 14 pages of Specification (which includes 25 claims and a one-page Abstract); 14 Sheets of Formal Drawings; a General Authorization/Request to Petition for Extensions of Time; a Credit Card Payment Form (PTO-2038) authorizing a charge to my credit card in the amount of \$840.00 to cover the filing fee; a Transmittal Letter (Form PTO 1082); Request for Non-Publication of Application Under 35 USC 122(b)(2)(B)(i); and Return Postcard are being deposited with the U.S. Patent Office at the Customer Service Window of the U.S. Patent Office on the date indicated above and is addressed to the Commissioner for Patents, Mail Stop Patent Application, Arlington, VA 22202.

Date of Deposit: September 12, 2003



\_\_\_\_\_  
Joseph R. Keating

VIA HAND DELIVERY  
PATENT  
50626.55



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

<p>In re application of: Chun Ho FAN et al. Serial No.: Currently unknown Filing Date: Concurrently herewith For: IMPROVED BALL GRID ARRAY PACKAGE AND PROCESS FOR MANUFACTURING SAME</p>	
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**GENERAL AUTHORIZATION/REQUEST TO PETITION FOR EXTENSIONS OF TIME**

U.S. Patent and Trademark Office  
2011 South Clark Place  
Customer Window, Mail Stop PATENT APPLICATION  
Crystal Plaza Two, Lobby, Room 1B03  
Arlington, VA 22202

Dear Sir:

With reference to the subject application, and pursuant to 37 C.F.R. § 1.136, Applicant(s) hereby authorize(s) and request(s) the Commissioner to treat any correspondence requiring a petition for extension of time as containing such a request therefor for the appropriate length of time. This general authorization is effective during the pendency of this application, including any division or continuing application therefrom.

General Authorization/Request  
To Petition for Extensions of Time  
September 12, 2003  
Page 2 of 2

Where no check is received by the Commissioner, you are hereby authorized to charge payment of the requisite petition fees, or charge any additional fee required under 37 C.F.R. § 1.17, or credit any overpayment of same, to Deposit Account No. 50-1353. A duplicate copy of this general authorization is enclosed.

Respectfully submitted,

  
Attorneys for Applicant(s)

Joseph R. Keating  
Registration No. 37,368

Christopher A. Bennett  
Registration No. 46,710

**KEATING & BENNETT LLP**  
10400 Eaton Place, Suite 312  
Fairfax, VA 22030  
Telephone: (703) 385-5200  
Facsimile: (703) 385-5080

**NONPUBLICATION REQUEST  
UNDER  
35 U.S.C. 122(b)(2)(B)(i)**

First Named Inventor	Neil McLELLAN
Title	IMPROVED BALL GRID ARRAY...
Attorney Docket Number	50626.55

I hereby certify that the invention disclosed in the attached application **has not and will not be** the subject of an application filed in another country, or under a multilateral agreement, that requires publication at eighteen months after filing.

I hereby request that the attached application not be published under 35 U.S.C. 122(b).

September 12, 2003

Date



Signature

(703) 385-5200

Telephone number

Joseph R. Keating (37,368)

Typed or printed name

This request must be signed in compliance with 37 CFR 1.33(b) and submitted with the application **upon filing**.

Applicant may rescind this nonpublication request at any time. If applicant rescinds a request that an application not be published under 35 U.S.C. 122(b), the application will be scheduled for publication at eighteen months from the earliest claimed filing date for which a benefit is claimed.

If applicant subsequently files an application directed to the invention disclosed in the attached application in another country, or under a multilateral international agreement, that requires publication of applications eighteen months after filing, the applicant **must** notify the United States Patent and Trademark Office of such filing within forty-five (45) days after the date of the filing of such foreign or international application. **Failure to do so will result in abandonment of this application (35 U.S.C. 122(b)(2)(B)(iii)).**

This collection of information is required by 37 CFR 1.213(a). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 6 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.